BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name of work:Improvements of Asphalting At Ashwathkate Surrounding Area in Mallasandra Ward No.13 Shettyhalli Sub Division

JOB NUMBER.: SI-1 Est. Amount = 50.00 Lakhs

Sl. No		Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
1	Removing and resetting of footpath slab (Page No-265 Item no - 37.6 of KPWD SR 2016-17)..								
	Ashwathkate Surrounding Area Roads	Sqm							
	Basaveshwara Road		2	180.00	0.90		324.00		
	Cambridge School Road		2	290.00	0.90		522.00		
	5th D Cross		2	88.00	0.90		158.40		
	4th Cross BHEL Mini Colony		2	45.00	0.90		81.00		
	5th Cross BHEL Mini Colony		2	45.00	0.90		81.00		
	Damaged Cover Slab 10%		2	64.80	0.90		116.64		
						Total Qty	1049.76	132.50	139093.20
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No.-142 I.No-19.1 of KPWD S.R 2016-17)								
	Ashwathkate Surrounding Area Roads	Cum							
	Desilting								
	Basaveshwara Road		2	180.00	0.60	0.35	75.60		
	Cambridge School Road		2	290.00	0.60	0.35	121.80		
	5th D Cross		2	88.00	0.60	0.30	31.68		
	4th Cross BHEL Mini Colony		2	45.00	0.60	0.30	16.20		
	5th Cross BHEL Mini Colony		2	45.00	0.60	0.30	16.20		
						Total Qty	261.48	186.92	48875.84
3	Providing and laying pre-cast drain cover slab of 100mm thickness in CM1:3 including cost of all materials,labour,curing, transportation, loading, unloading etc.,as per doiirections of the Enineer-in-charge. {Data Rate sheet enclosed}								
	Ashwathkate Surrounding Area Roads	Sqm							
	Damaged Covering Slab 10% of total length								
	Basaveshwara Road		2	18.00	0.90		32.40		
	Cambridge School Road		2	29.00	0.90		52.20		
	5th D Cross		2	8.80	0.90		15.84		
	4th Cross BHEL Mini Colony		2	4.50	0.90		8.10		
	5th Cross BHEL Mini Colony		2	4.50	0.90		8.10		
						Total Qty	116.64	1957.00	228264.48
4	Removing and Resetting of Kerb Stones (P.No.255, I.No.37.57 of PW,P&IWTD S.R 2016-17)								
	90% Removing Resetting of Kerb	M							
	Pipe Line Road		4	945.00			3780.00		
						Total Qty	3780.00	65.72	248421.60
5	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (P.No.25, I.No.5.30 / 5.29(b) of PW,P&IWTD S.R 2016-17)								
	10% new kerb	Nos							
	Pipe Line Road		4	105.00			933.33		
						Total Qty	933.33	331.78	309661.33
6	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.176, I.No. 24.1 of PW,P&IWTD SR 2016-17)								
	Kerb Painting	Sqm							
	Pipe Line Road		4	1050.00		0.45	1890.00		
						Total Qty	1890.00	63.60	120204.00
7	Earth work in soil with hydraulic excavator of 0.9 cu.m. bucket capacity including cutting and loading in tippers, trimming bottom and side slopes. In accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. (Page No,-143, I.No.-19.14 of KPWD S.R 2016-17).								
	Ashwathkate Surrounding Area Roads								

Sl. No		Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	Pipe line Cutting	Cum							
	Cambridge School Road		1	290.00	1.00	0.60	174.00		
	4th Cross BHEL Mini Colony		1	45.00	1.00	0.60	27.00		
	5th Cross BHEL Mini Colony		1	45.00	1.00	0.60	27.00		
	Pot Holes		5	2.00	1.50	0.30	4.50		
	Road Cutting		10	5.00	0.40	0.30	6.00		
						Total Qty	680.70	148.76	101260.93
8	0400 Stone dust / Grit (Page No,-II, Sl.No.-50 of KPWD S.R 2016-17).								
	Ashwathkate Surrounding Area Roads	Cum							
	BC Road								
	Pipe line Cutting								
	Cambridge School Road		1	290.00	1.00	0.4	116.00		
	4th Cross BHEL Mini Colony		1	45.00	1.00	0.4	18.00		
	5th Cross Road		1	45.00	1.00	0.4	18.00		
						Total Qty	152.00	848.00	128896.00
9	KSRRB M400-6.1. Construction of granular sub-base of Grading II Material by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method (Page No,-155, I.No.-20.4.2 of KPWD S.R 2016-17)								
	Ashwathkate Surrounding Area Roads	Cum							
	BC Road								
	Basaveshwara Road		1	180.00	5.5	0.15	148.50		
	5th D Cross		1	88.00	5.5	0.15	72.60		
	Pot Holes		5	2.00	1.50	0.15	2.25		
	Road Cutting		10	5.00	0.40	0.15	3.00		
						Total Qty	226.35	1665.26	376931.60
10	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / ChapterPage no -149.Item.No 19.64 of KPWD S.R 2016-17)								
	Ashwathkate Surrounding Area Roads	Sqm							
	BC Road								
	Basaveshwara Road		1	180.00	5.50		990.00		
	5th D Cross		1	88.00	5.50		484.00		
	Pipe line Cutting								
	Cambridge School Road		1	290.00	1.00		290.00		
	4th Cross BHEL Mini Colony		1	45.00	1.00		45.00		
	5th Cross BHEL Mini Colony		1	45.00	1.00		45.00		
	Pot Holes		5	2.00	1.50		15.00		
	Road Cutting		10	5.00	0.40		20.00		
						Total Qty	1889.00	5.30	10011.70
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No,-158, I.No.-20.18 of KPWD S.R 2016-17).								
	Ashwathkate Surrounding Area Roads	Cum							
	BC Road								
	Basaveshwara Road		1	180.00	5.50	0.18	178.20		
	5th D Cross		1	88.00	5.50	0.18	87.12		
	Pipe line Cutting								
	Cambridge School Road		1	290.00	1.00	0.18	52.20		
	4th Cross BHEL Mini Colony		1	45.00	1.00	0.18	8.10		
	5th Cross BHEL Mini Colony		1	45.00	1.00	0.18	8.10		
	Pot Holes		5	2.00	1.50	0.18	2.70		
	Road Cutting		10	5.00	0.40	0.18	3.60		
						Total Qty	340.02	1768.08	601182.56
12	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg I sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (Page No,-161, I.No.-21.6 of KPWD S.R 2016-17).								
	Ashwathkate Surrounding Area Roads								
	BC Road								
	Basaveshwara Road		1	180.00	5.50		990.00		
	5th D Cross		1	88.00	5.50		484.00		
	Pipe line Cutting								
	Cambridge School Road		1	290.00	1.00		290.00		

Sl. No		Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
	Pot Holes		1	2.00	1.50		3.00		
	Road Cutting		1	5.00	0.40		2.00		
	Profile correction								
	Cambridge School Road		1	290.00	1.80		522.00		
	4th Cross BHEL Mini Colony		1	45.00	1.80		81.00		
	5th Cross BHEL Mini Colony		1	45.00	1.80		81.00		
						Total Qty	**2543.00**	**27.56**	**70085.08**
13	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (Page No:160, Item No:21.2 SR:2016-17)								
	Ashwathkate Surrounding Area Roads	Sqm							
	BC Road								
	Basaveshwara Road		1	180.00	5.50		990.00		
	5th D Cross		1	88.00	5.50		484.00		
	Cambridge School Road		1	290.00	5.50		1595.00		
	4th Cross BHEL Mini Colony		1	45.00	5.00		225.00		
	5th Cross BHEL Mini Colony		1	45.00	5.00		225.00		
						Total Qty	**3519.00**	**3.18**	**11190.42**
14	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH (Page No,-160, I.No.-21.7 of KPWD S.R 2016-17).								
	Ashwathkate Surrounding Area Roads	Sqm							
	Basaveshwara Road		1	180.00	5.50		990.00		
	5th D Cross		1	88.00	5.50		484.00		
	Cambridge School Road		1	290.00	5.50		1595.00		
	4th Cross BHEL Mini Colony		1	45.00	5.00		225.00		
	5th Cross BHEL Mini Colony		1	45.00	5.00		225.00		
						Total Qty	**3519.00**	**12.72**	**44761.68**
15	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mixformula for base / binding course including loading of aggregates withF.E. loader, hot mixing of stone aggregates and bitumen in hot mixplant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer/ tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications.(Page No,-162, I.No.-21.11.6 of KPWD S.R 2016-17).								
	Ashwathkate Surrounding Area Roads	Cum							
	BC Road								
	Basaveshwara Road		1	180.00	5.50	0.05	49.50		
	5th D Cross		1	88.00	5.50	0.05	24.20		
	Pipe line Cutting								
	Cambridge School Road		1	290.00	1.00	0.05	14.50		
	4th Cross BHEL Mini Colony		1	45.00	1.00	0.05	2.25		
	5th Cross BHEL Mini Colony		1	45.00	1.00	0.05	2.25		
	Pot hole		5	2.00	1.50	0.05	0.75		
	Road Cutting		10	5.00	0.40	0.05	1.00		
	Profile correction								
	Cambridge School Road		1	290.00	1.80	0.05	26.10		
	4th Cross BHEL Mini Colony		1	45.00	1.80	0.05	4.05		
	5th Cross BHEL Mini Colony		1	45.00	1.80	0.05	4.05		
						Total Qty	**128.65**	**5730.36**	**737210.81**
16	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4 % VG-30 Bitumen using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification (Page No,-165, I.No.-21.22.6 of KPWD S.R 2016-17).								
	Ashwathkate Surrounding Area Roads	Cum							
	BC Road								
	Basaveshwara Road		1	180.00	5.50	0.04	39.60		
	5th D Cross		1	88.00	5.50	0.04	19.36		
	Cambridge School Road		1	290.00	5.50	0.04	63.80		
	4th Cross BHEL Mini Colony		1	45.00	5.00	0.04	9.00		
	5th Cross BHEL Mini Colony		1	45.00	5.00	0.04	9.00		
						Total Qty	**140.76**	**8118.54**	**1142765.69**

Sl. No		Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
17	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface - Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sq.m. area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC :35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (Page No,-185, I.No.-24.15 of KPWD S.R 2016-17).								
	BC Road								
	Road Marking	Sqm	2	648.00	0.15		194.40		
						Total Qty	**194.40**	**542.72**	**105504.77**
								Total Constrution cost	**44,24,321.70**
								Design Report,Proof Checking & PMC Amount	**88,486.43**
								KRDL Charges 11%	**4,86,675.39**
								Sub Total	**49,99,483.52**
								Miscellaneous & Rounding Off	**516.48**
								Grand Total	**50,00,000.00**

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2016-17
4. The provisions made in the estimate are necessary and essential.

Consultants
For Sri Sai Consultants

Assistant Engineer
Ward No.13
BBMP - Bangalore

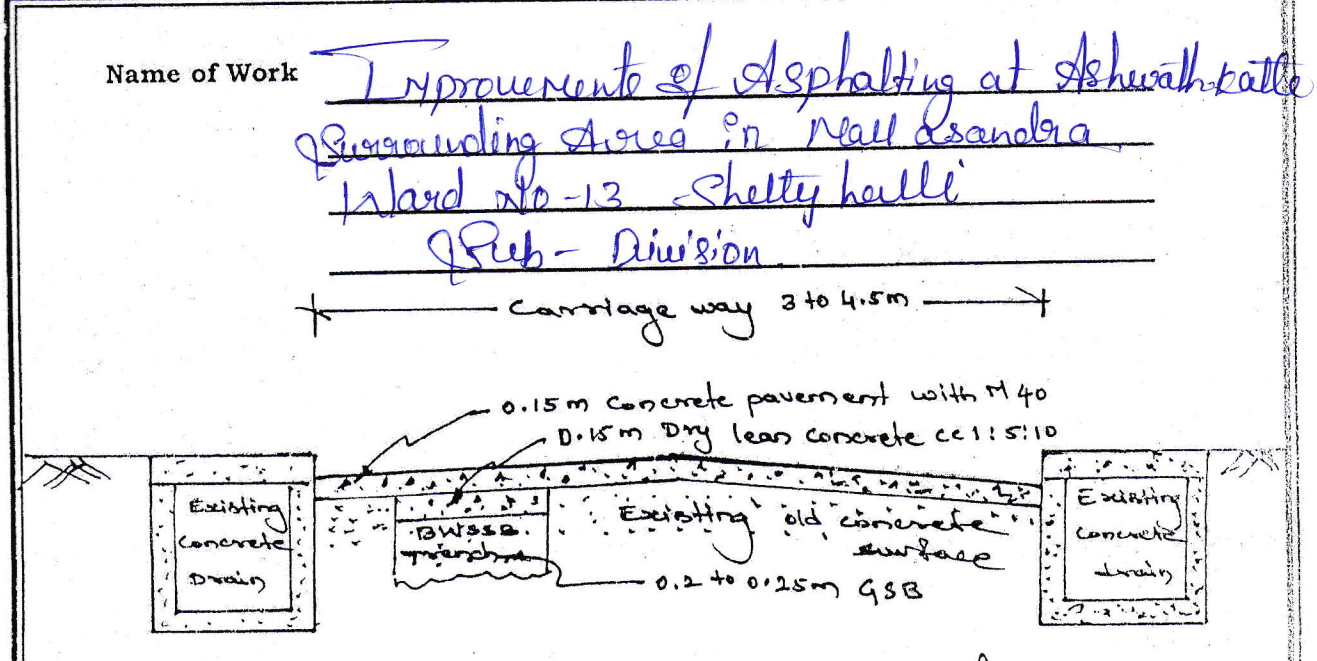
Assistant Executive Engineer
Shettyhalli Sub-Division
BBMP - Bangalore

Executive Engineer
Dasarahalli
BBMP - Bangalore

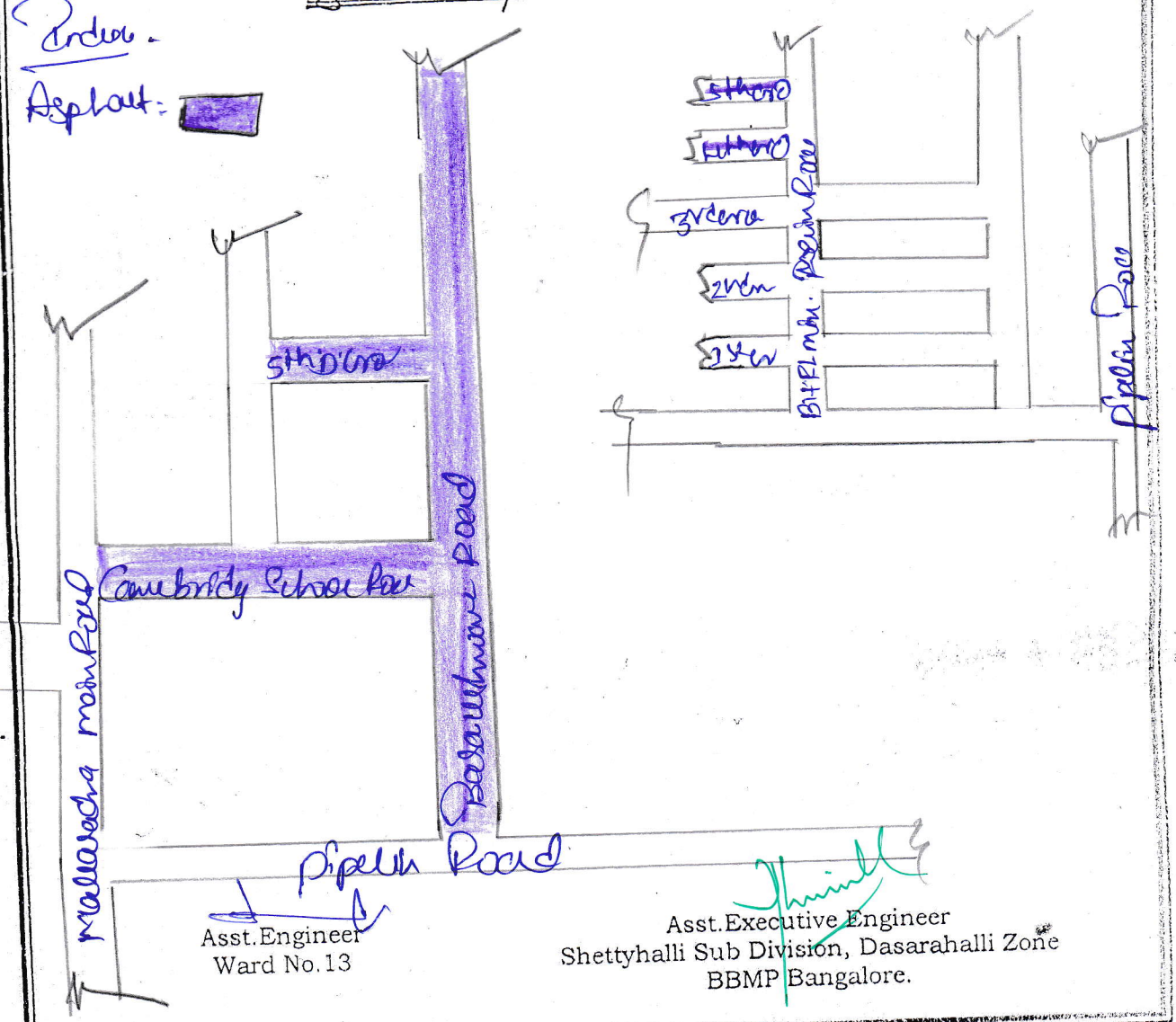
ನಂ. EE/DD/668/17-18 ದಿನಾಂಕ : 5/2/18
ರೂ. Rs- 50.00Lakhs Rupees Fifty Lakhs Only
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ...

ನಂ. 1 CE/TS/2467/18 ದಿನಾಂಕ : 06/02/2018
ರೂ. Rs. 50.00 Lakhs only/-
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

Name of Work: Improvements of Asphalting at Ashwathkatte Surrounding Area in Nallakasandra Ward No-13 Shettyhalli Sub-Division


Carriage way 3 to 4.5m
0.15m Concrete pavement with M40
0.15m Dry lean concrete CC 1:5:10
Existing concrete Drain
BWSSB trenches
Existing old concrete surface
0.2 to 0.25m GSB
Existing concrete drain

Typical c/s of cc Road Surface



Asst.Engineer
Ward No.13

Asst.Executive Engineer
Shettyhalli Sub Division, Dasarahalli Zone
BBMP Bangalore.